

## Section 0-2: Changing Units of Measure Between Systems

By the end of this lesson, you should be able to answer:

- How do you convert units of measure between measurement systems?

Sometimes there is a need to switch between the customary and metric systems.

Units of Length	
Customary to Metric	Metric to Customary
1 in $\approx$	1 cm $\approx$
1 yd $\approx$	1 m $\approx$
1 mi $\approx$	1 km $\approx$

*Example 1:* Convert.

a. 26 cm  $\approx$  \_\_\_\_\_ in

b. 7 mi  $\approx$  \_\_\_\_\_ km

c. 1800 yd  $\approx$  \_\_\_\_\_ km

Units of Capacity	
Customary to Metric	Metric to Customary
1 qt $\approx$	1 L $\approx$
1 pt $\approx$	1 L $\approx$

*Example 2:* Convert.

a. 10 L  $\approx$  \_\_\_\_\_ qt

b. 13 pt  $\approx$  \_\_\_\_\_ L

Units of Weight/Mass	
Customary to Metric	Metric to Customary
1 oz $\approx$	1 g $\approx$
1 lb $\approx$	1 kg $\approx$

Example 3: Convert.

a. 29 lb  $\approx$  \_\_\_\_\_ kg

b. 75 g  $\approx$  \_\_\_\_\_ oz

***\*\*\*Remember, we are only estimating the conversions. To be more accurate, we need more decimals in each conversion.\*\*\****

Problem Set:

"A successful individual typically sets his next goal somewhat but not too much above his last achievement. In this way he steadily raises his level of aspiration." - Kurt Lewin